

AMENDMENT TO THE CLAIMS

The following is a detailed listing of all claims that are, or were, in the Application. Please cancel claims 1-17 and 20-27.

1-17. (Cancel)

18. (Currently amended) ~~The converter of Claim 16,~~ A converter circuit, comprising:

an AC-to-DC converter, comprising a plurality of first power devices;

a resonant DC link, comprising only one power transistor and a first and a second DC link line;

a DC-to-AC converter, comprising a plurality of second power devices; and

DC link lines, coupling the AC-to-DC converter, the resonant link, and the DC-to-AC converter, wherein

a first terminal of the power transistor is connected to the first DC link lines and a second terminal of the power transistor is connected to the second DC link line; and

the resonant DC link is operable to clamp an operating voltage of the converter;

wherein the power transistor of the DC link comprises:

an auxiliary power transistor selected from the group of MOS-FETs and npn bipolar transistors; and

an auxiliary power diode, coupled across the auxiliary power transistor;

wherein the resonant DC link comprises:

a first capacitor, coupled in series with the power transistor;

a resonant capacitor, comprising parasitic capacitors of the power devices;

an inductance, coupled in parallel with the power transistor and the first

capacitor, the inductance forming a resonant circuit with the resonant capacitor; and

a second capacitor, coupled in series with the resonant circuit.

19. (Original) The converter of Claim 18, outputting an output voltage between the DC link lines, wherein the output voltage is essentially clamped to the sum of the voltage across the first capacitor and the voltage across the second capacitor.

20-27. (Cancel)